

Opener

Evaluate- Leave as a positive power

$$3(3)^5 \div 3^3 \quad \frac{x^4(y(y^5))}{xy^4}$$

$$\left(\frac{3}{2}\right)^{-3}$$

Evaluate -Leave as a positive power

$$8^{-2} + (4^{-1})^2$$

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Opener

Evaluate- Leave as a positive power

$$\frac{x^4(y(y^5))}{xy^4} = \frac{x^4y^6}{xy^4} = x^3y^2$$

Evaluate -Leave as a positive power

$$8^{-2} + (4^{-1})^2$$

$$(2^3)^{-2} + (2^2)^{1^2}$$

$$2^{-6} + 2^{-4}$$

$$\frac{1}{2^6} + \frac{1}{2^4} \Rightarrow \frac{1}{64} + \frac{1}{16}$$

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7.4 Working With Rational Exponents p. 410

$$b^{\frac{1}{n}} = \left(\sqrt[n]{b}\right)^1 \Rightarrow \text{Radicals}$$

$$b^{\frac{m}{n}} = \left(\sqrt[n]{b}\right)^m$$

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$$8^{\frac{1}{3}} = \left(\sqrt[3]{8}\right)^1 \quad \text{Root}$$

$$= (2)^1$$

$$= 2$$

$$81^{\frac{1}{4}} = \left(\sqrt[4]{81}\right)^1$$

$$= (3)^1$$

$$= 3$$

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$$27^{\frac{2}{3}} = \left(\sqrt[3]{27}\right)^2$$

$$= (3)^2$$

$$= 3^2$$

$$= 9$$

$$125^{-\frac{2}{3}} = \left(\frac{1}{125}\right)^{\frac{2}{3}}$$

$$\left(\frac{1}{\sqrt[3]{125}}\right)^2 \Rightarrow \frac{1^2}{(5)^2}$$

$$\frac{1}{5^2}$$

$$\frac{1}{25}$$

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$$0.4 = \frac{25}{100} = \frac{25^{\frac{4}{10}}}{100} = \frac{25^{\frac{2}{5}}}{100} = \frac{(5\sqrt{5})^2}{100}$$

$$0.45 = \frac{16}{100} = \frac{16^{\frac{45}{100}}}{100} = \frac{16^{\frac{9}{20}}}{100} = \frac{(2\sqrt[10]{16})^9}{100}$$

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Homework
p. 415-417 q. 1- 18 odds

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May 9-1:58 PM